

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): A corrosion-resistant chromium steel for architectural and civil engineering structural elements, comprising:

from about 0.0015 to about 0.02 mass percent C;

from about 0.0015 to about 0.02 mass percent N;

from about 0.1 to about 1.0 mass percent Si;

from about 0.1 to about 3.0 mass percent Mn;

more than about 5 mass percent to less than about 10 mass percent Cr;

from about 0.01 to about 3.0 mass percent Ni;

about 0.1 mass percent or less of Al;

about 0.05 mass percent or less of P;

about 0.03 mass percent or less of S;

from about 0.01 to about 1.0 mass percent Co; and

the balance being Fe and incidental impurities, the steel thereby having high long-term corrosion resistance and high weld-zone toughness and a tensile strength of between 400 and 550 MPa.

Claim 2 (original): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 1, further comprising:

from about 0.01 to about 0.5 mass percent V; and
from about 0.001 to about 0.05 mass percent W,
wherein the Cr content is in the range of more than
about 5 mass percent to less than about 8 mass percent, and a Z
value represented by formula (1) is in the range of 0.03 to 1.5:

$$Z \text{ value} = ([\%Co] + 1.5[\%V] + 4.8[\%W])$$

(1)

wherein [%Co], [%V], [%W], respectively, represent Co,
V, and W contents by mass percent.

Claim 3 (original): The corrosion-resistant chromium steel for
architectural and civil engineering structural elements according
to claim 2, wherein the Cr content is in the range of more than
about 5 mass percent to less than about 7.5 mass percent and the
W content is in the range of about 0.005 to about 0.03 mass
percent.

Claim 4 (original): The corrosion-resistant chromium steel for
architectural and civil engineering structural elements according
to claim 1, further comprising at least one of about 3.0 mass
percent or less of Cu and about 3.0 mass percent or less of Mo.

Claim 5 (original): The corrosion-resistant chromium steel for
architectural and civil engineering structural elements according
to claim 2, further comprising at least one of about 3.0 mass
percent or less of Cu and about 3.0 mass percent or less of Mo.

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Claim 6 (original): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 3, further comprising at least one of about 3.0 mass percent or less of Cu and about 3.0 mass percent or less of Mo.

Claim 7 (original): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 1, further comprising from about 0.0002 to about 0.0030 mass percent of B.

Claim 8 (original): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 2, further comprising from about 0.0002 to about 0.0030 mass percent of B.

Claim 9 (original): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 3, further comprising from about 0.0002 to about 0.0030 mass percent of B.

Claim 10 (original): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 4, further comprising from about 0.0002 to about 0.0030 mass percent of B.

Claim 11 (new): A corrosion-resistant chromium steel for architectural and civil engineering structural elements, comprising:

from about 0.0015 to about 0.02 mass percent C;

from about 0.0015 to about 0.02 mass percent N;
from about 0.1 to about 1.0 mass percent Si;
from about 0.1 to about 3.0 mass percent Mn;
more than about 5 mass percent to less than about 10
mass percent Cr;

from about 0.01 to about 0.95 mass percent Ni;
about 0.1 mass percent or less of Al;
about 0.05 mass percent or less of P;
about 0.03 mass percent or less of S;
from about 0.01 to about 1.0 mass percent Co; and

the balance being Fe and incidental impurities, the
steel thereby having high long-term corrosion resistance and high
weld-zone toughness.

Claim 12 (new): The corrosion-resistant chromium steel for
architectural and civil engineering structural elements according
to claim 11, further comprising:

from about 0.01 to about 0.5 mass percent V; and
from about 0.001 to about 0.05 mass percent W,

wherein the Cr content is in the range of more than
about 5 mass percent to less than about 8 mass percent, and a Z
value represented by formula (1) is in the range of 0.03 to 1.5:

$$Z \text{ value} = ([\%Co] + 1.5[\%V] + 4.8[\%W])$$

(1)

wherein [%Co], [%V], [%W], respectively, represent Co, V, and W contents by mass percent.

Claim 13 (new): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 12, wherein the Cr content is in the range of more than about 5 mass percent to less than about 7.5 mass percent and the W content is in the range of about 0.005 to about 0.03 mass percent.

Claim 14 (new): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 11, further comprising at least one of about 3.0 mass percent or less of Cu and about 3.0 mass percent or less of Mo.

Claim 15 (new): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 11, wherein a tensile strength of the steel is between 400 and 550 MPa.

Claim 16 (new): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 12, further comprising at least one of about 3.0 mass percent or less of Cu and about 3.0 mass percent or less of Mo.

Claim 17 (new): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 11, further comprising from about 0.0002 to about 0.0030 mass percent of B.

Claim 18 (new): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 12, further comprising from about 0.0002 to about 0.0030 mass percent of B.

Claim 19 (new): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 13, further comprising from about 0.0002 to about 0.0030 mass percent of B.

Claim 20 (new): The corrosion-resistant chromium steel for architectural and civil engineering structural elements according to claim 14, further comprising from about 0.0002 to about 0.0030 mass percent of B.

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